**Stock Forecaster Web Application**

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**Problem Statement**

For most people, stock market trading is only available to those who are already wealthy, or those who devote many hours of time into the art of trading. We will provide a program that uses machine learning algorithms to analyze stock prices and other market data to give users an idea where markets are heading. This will allow more people to confidently begin investing in the stock market.

**Project Objectives**

-Produce a web application that performs the following.

-Allow users to learn the basic fundamentals and terms associated with stock trading.

-Use machine learning algorithms to predict stock pricing to a reasonable degree of accuracy.

-Allow users to request training of stock market data with the machine learning algorithms we use.

-provide a clean and easy to use interface that allows people to navigate our application easily.

**Stakeholders**

Users: Any person with the means to trade in a stock market.

Developers: Atul Aneja, Galal Aref, Tarang Khanna, Wyatt Larkey, and Joel Van Auken.

Project Manager: Wyatt Larkey

Project Owners: Atul Aneja, Galal Aref, Tarang Khanna, Wyatt Larkey, and Joel Van Auken.

**Project Deliverables**

-A web based application that allows users to easily see predictions and extrapolations of stock market data.

- Users will use a web page GUI to navigate software features. The primary feature will be a visual representation of the predicted stock value in the form of an extrapolated graph.

- Webpage front-end will be constructed with HTML, CSS, and JavaScript.

- Python using Flask or another framework will be used to train data with a machine learning algorithm.

- MySQL Database to store stock market data for continued use.